USER'S GUIDE

LandAirSea 7100 Real Time GPS Tracking System

1.1 Introduction

The LandAirSea 7100 is a web-based real time tracking system that uses GPS technology to accurately determine the exact location of your vehicle.

You can set the unit to update its location while the vehicle is moving and can be set to update in the following increments : 5, 15, 30, 60 minutes, 4 hours, daily or weekly. If you do not need the tracking unit to update automatically you can set it up for Web Poll which means you track the location on an as needed basis.

The unit also has 3 inputs which can be connected to your vehicle's alarm system or airbag inflation system to inform you if your alarm is going off or if your airbag was inflated.

You can also use the LandAirSea 7100 to disable your vehicle from driving anywhere in the event that it was stolen. The LandAirSea 7100 is very easy to install on your vehicle. It comes with a single antenna and a power cable that connects directly to your battery or fuse box.

1.2 Activating Your LandAirSea 7100

The very first thing you need to do is activate your tracking unit. You do not want to have your unit installed before it is activated. Activate it first.

You should have a 7100 Activation sheet that came with your tracking unit. Fill it out completely and fax it to the number given on the sheet. Within 24 hours your unit will be activated, usually activation will be completed in less than 2 hours. You can check on the status of your activation by trying to log in (See the section on Log In). If you cannot log in, than your unit probably has not been activated.

1.3 Setting the Switches on the Tracking Unit - VERY IMPORTANT. DO THIS BEFORE INSTALLATION

On the back of the tracking unit you will see eight small switches. These switches control how the unit will automatically report its' location. Make sure this is done before installation.

For most cases, switches 1, 2, 3, and 4 will not be used and can remain in the off position. Later sections of this manual discuss the operation of switches 1-4.

Switch 5 controls whether or not the tracking unit will send Speed and Direction information along with the location. If you want the unit to report the speed and direction, then turn Switch 5 OFF. If you only need position (more economical) then turn Switch 5 ON.

Switches 6, 7, and 8 control how often you want the tracking unit to automatically report its' location when the vehicle is moving. The unit will not continually send out the location when it is stationary. This would waste airtime and dramatically increase the monthly cost. The following chart shows which switches to set according to your requirements:

Web Poll	S6-OFF, S7-OFF, S8-OFF
Once per Week	S6-OFF, S7-OFF, S8-ON
Once per Day	S6-OFF, S7-ON, S8-OFF
Every 4 Hours	S6-OFF, S7-ON, S8-ON
Every Hour	S6-ON, S7-OFF, S8-OFF
Every 30 Minutes	S6-ON, S7-OFF, S8-ON
Every 15 Minutes	S6-ON, S7-ON, S8-OFF
Every 5 Minutes	S6-ON, S7-ON, S8-ON

As an example, if you have switches 5, 6, 7, and 8 all in the ON position, then the unit will report position only, every 5 minutes when the vehicle is moving.

Web Poll means that the unit will only report its location when you request it by logging in and sending a request to "Locate Unit". This is commonly knows as "pinging" the tracking unit.

1.4 Connecting the Power Cable to the 7100 Unit and the Vehicle

You will need a small screw driver to connect the power cable to the tracking unit. Loosen the 2 screws on the side of the unit. Insert the wires as shown in the picture below. Then tighten the screws. Make sure the wires are firmly connected so they do not come loose.

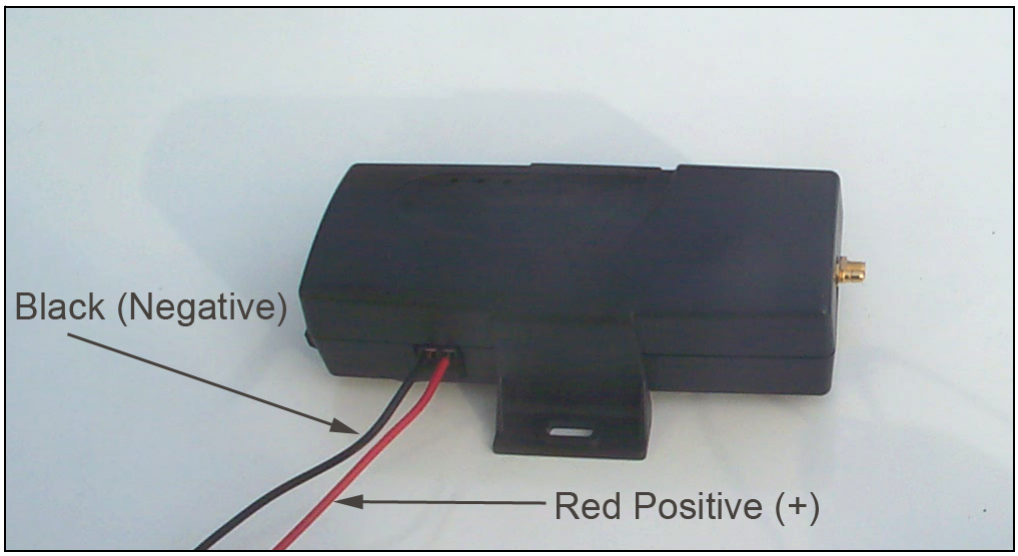


Figure 1.0 - Power Connection to the LandAirSea 7100

After you have connected the power cable to the tracking unit, take the fuse out of the fuse holder. The fuse holder is part of the power cable. This is VERY important, so make sure you do not forget to take the fuse out of the fuse holder.

Now connect the other end of the power cable to either the battery of the vehicle or the fuse box. You can also connect it to any other source on the car that provides 12 volts of power. See Figure 1.1 which shows the connection to the battery.

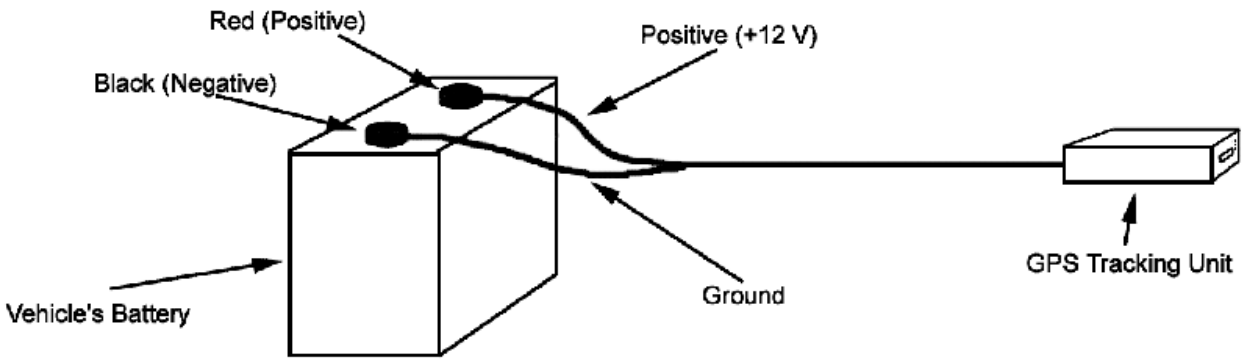


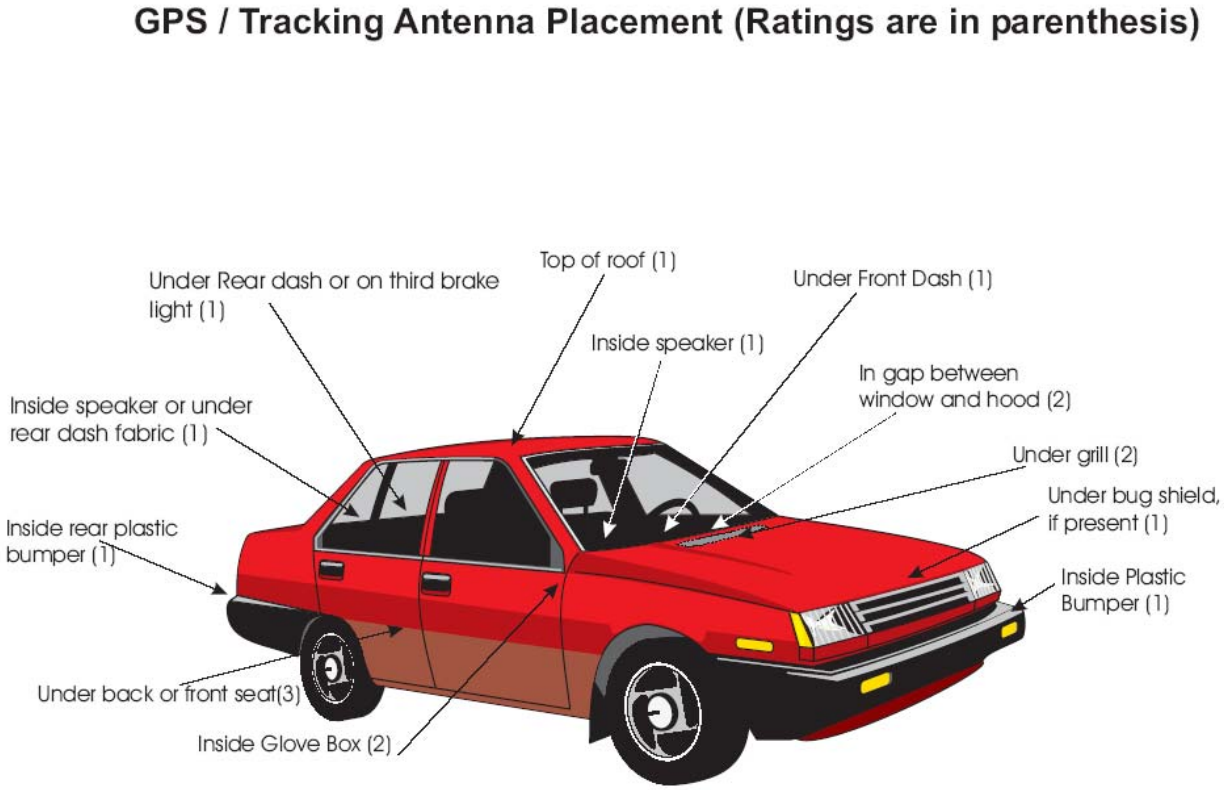
Figure 1.1 - Power Connection vehicle's battery

1.4 Mounting the GPS Tracking Unit

You can mount the actual GPS tracking unit anywhere in the car. It is not recommended to mount the outside of the car because it is not waterproof. If you cannot mount the tracking unit inside the vehicle, then it is a good idea to make sure that it does not get wet.

The best place to mount both the unit and the antenna is under the dash board. You can usually find a 12 volt power source, usually the same source that goes to the radio. Make sure the antenna is as high up as possible or in other words, as close to the windshield as possible, but still under the dash board. Also, make sure that the black side of the antenna is facing up.

Shown below are some other otions for antenna placement.



1.5 Powering Up Your Tracking Unit

After you have set the switches, connected the power cable (without the fuse), and mounted the unit and antenna, you will be ready to power up the unit. Place the fuse back in the fuse holder and lock the fuse holder. You should see activity on the three green lights located on the top of the unit. After about 5 to 10 minutes, you should see 1 solid green light and the other 2 lights should flash once about every 5 to 7 seconds.

You are now ready to log on and track your vehicle.

2.1 Required Browser Settings

Before you Login to you tracking account there are some important browser setting that you need to set:

The following instructions are organized according to what browser and browser version you are running.

Internet Explorer 5 -
Select *Tools* from the menu, then *Internet Options*, then the *Security* tab, click *Custom Level*, scroll down to *Cookies* and make sure *Allow per-session cookies (not stored)* is set to *Enable.*

Select *Tools* from the menu, then *Internet Options*, then the *General* tab, click *Settings* and make sure *Check for newer versions of stored pages* is set to *Every visit to the page.*

Internet Explorer 6

Select Tools from the menu, then *Internet Options*, then the *Privacy* tab, click *Advanced*, make sure *Override automatic cookie handling* is checked and then that *Always allow session cookies* is checked. See Figure 2.1.

Figure 2.1

Select Tools from the menu, then *Internet Options*, then the *General* tab, click *Settings* and make sure *Check for newer versions of stored pages* is set to *Every visit to the page. See Figure 2.2 on the following page.*

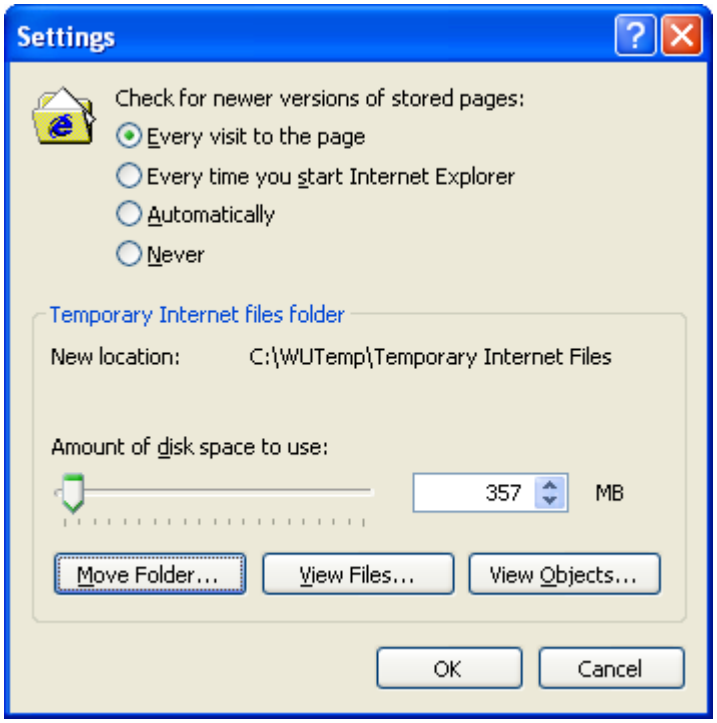


Figure 2.2

Netscape 6

select *Edit* from the menu, then *Preferences*, then the *Privacy & Security* category, click *Cookies* and make sure *Cookie Acceptance Policy* is set to either *Enable cookies for the originating web site only* or *Enable all cookies.*

select *Edit* from the menu, then *Preferences*, then the *Advanced* category, click *Cache* and under *Cache Options* make sure *Compare the page in the cache to the page on the network* is set to *Every time I view the page.*

2.2 Logging In

You are now ready to log in. The website that you go to to log in is www.landairsea.com. On that main web page you will see a link for the Login. After you log in, you will see a screen similar to he screen on the following page.

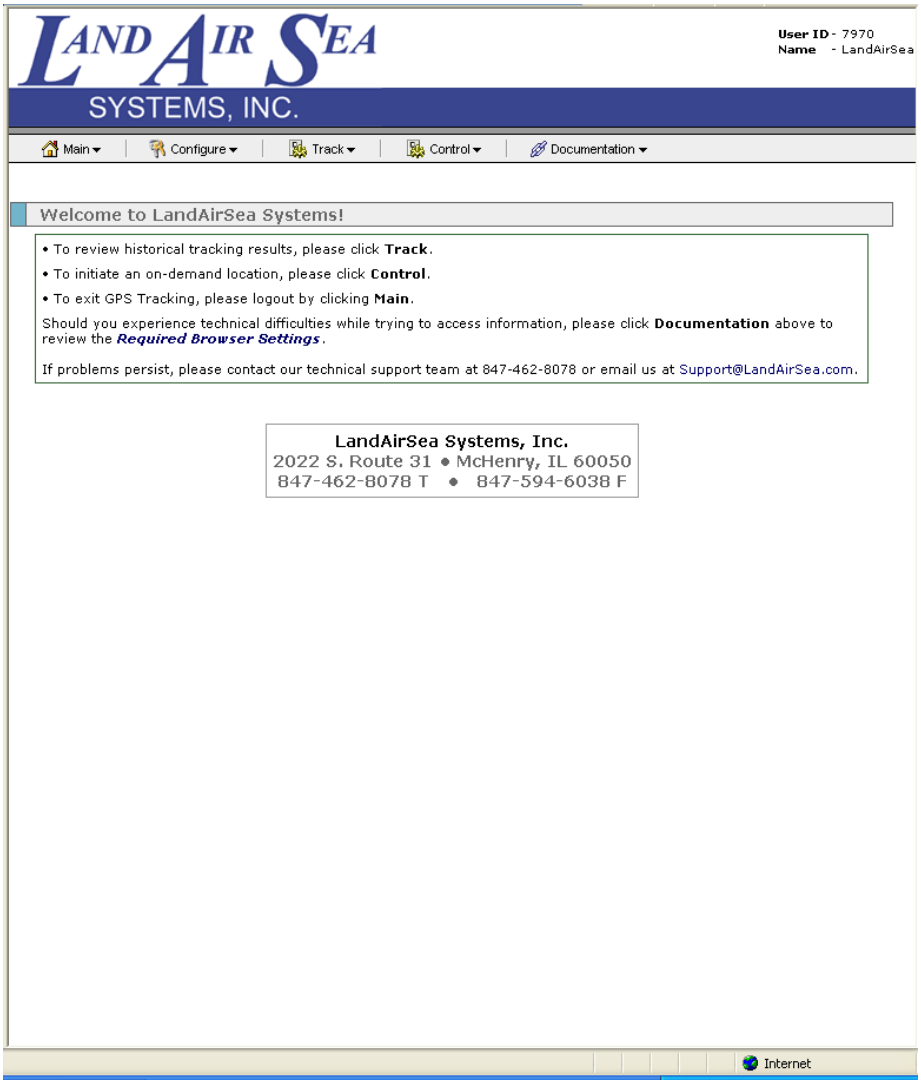


Figure 2.3

If your screen does not have a tool bar on the top, then you will need to install Java software. This can be found at www.java.com. It is a free download called Java for the Desktop and is necessary to properly display the tool bar.

2.3 Menu Functions

MAIN

Logout / Login - This function allows you to logout or log back in.

Home - This will take you back to the LandAirSea 7100 main page.

CONFIGURE

Edit Unit Settings - This area allows you to customize your tracking unit(s).

Select the activated Unit from the pull down menu.

For most users, you do not need to make any changes on this page except naming the unit. Under **Unit Name**, type in a name for the vehicle, such as “Truck1” or “GMC1”.

Fleet#
If you have a large fleet you can use this feature to divide up your fleet.

Input Description
In the Input Description block enter the type of input conditions to be monitored such as Air Bag or Car Alarm.

Output Descriptions
In the Output Descriptions, type in the output you intend to control, such as “Shut Off Engine” or “Unlock Doors”.

Notification Paths
The Notification Path is the means you select for an event notifications to be sent. These notifications may be received by e-mail or alphanumeric page. If notification is not selected you can still view all alarms and conditions received from each Unit using the **View Data Received** function. To use cell phone text messaging select e-mail and enter the text messaging e-mail address into the primary or secondary e-mail address block. If you do not know the e-mail format of your cellular phone we have provided a list under Documentation | E-mail addresses for Cell Phones.

Input Notification Control
The Input Notification Control allows you to receive notification status (Alarms) for the inputs set in the Input Description block. Select **Yes** for all inputs entered in the Input Description block. Select **Yes** or **No** for normal/alarm conditions. **Yes** will allow you to receive notifications for normal and alarm conditions.

Input Notification Text
The Input Notification Text will be the text received by you via e-mail or alphanumeric page stating the conditions (Alarm/Normal) of the selected inputs. In the **Alarm / Normal** text blocks type the condition or notification to be received via e-mail or alphanumeric page.
The **Supply Voltage Alarm and Supply Voltage Normal** is intended for use with a supply that has a backup battery. Upon completion click **Update.**

List Units
This function gives you a list of all the units in your fleet. It will also show you when the unit was activated and the last time the units have sent data.

TRACK

View Data Received
This function allows you to view all of the data, including notifications, of your tracking units. For most applications, this function is not very useful.

View All Notications
This function will show you all of the notifications. For most applications this is not used. It is only used if you are using the input notifications.

View E-Mail and Alpha Notifications
This will show you only the notifications that were sent out via E-mail or Pager.

View Central Station Telco Notifications
This is similar to the above description

View Central Station IP Notifications
This is similar to the above description

View Position Fixes
View position fixes will show you all of the data points reported for a given time period. You can select the time period. See Figure Below.

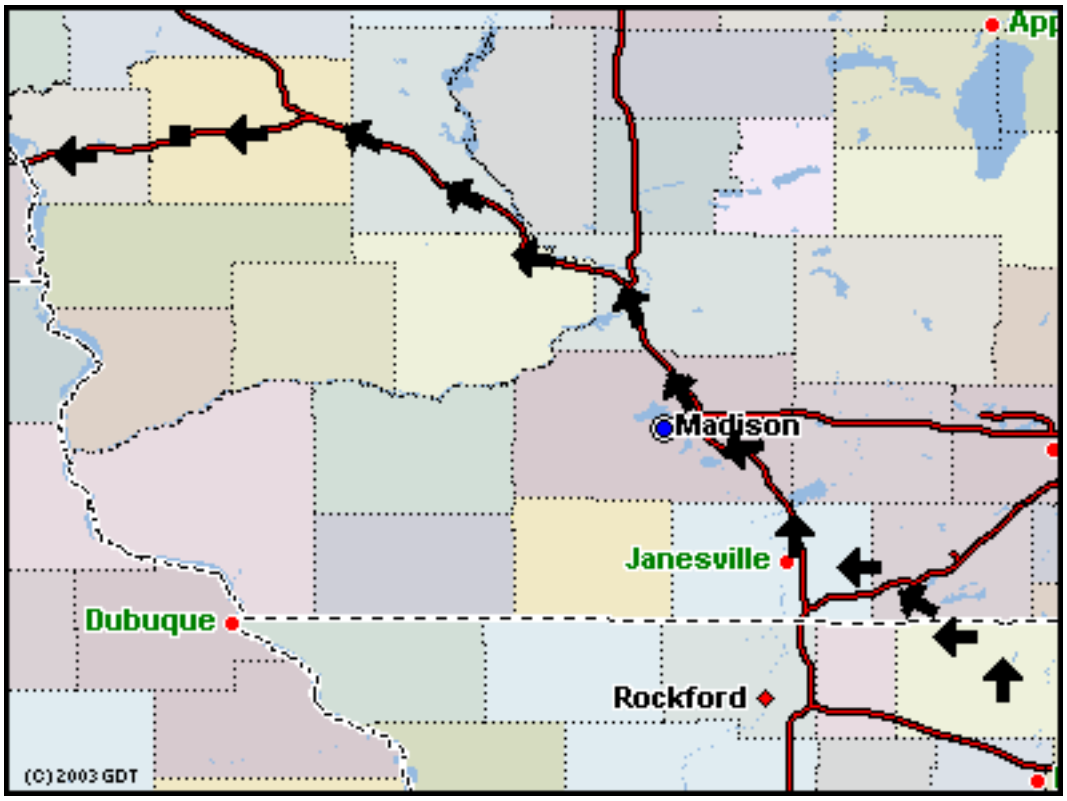


Figure 2.4 View Position Fixes

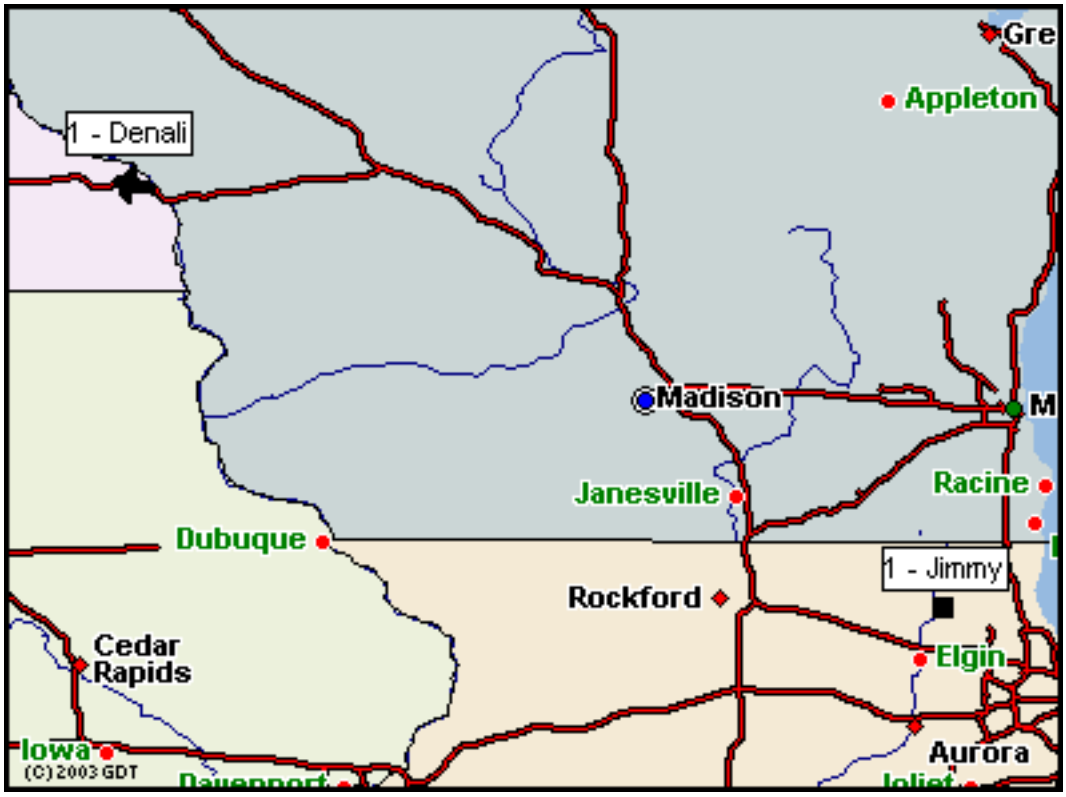


Figure 2.5 View Last Known Fleet Position

View Last Known Fleet Position

This function allows you to view the last known position of your entire fleet. This function is very helpful if you need to find the vehicle that is closest to a specific location.

View Position Fixes - Alternate Style

For a more graphical style of zooming in and out and shifting the map (panning), you can use the alternate style of displaying the vehicle's location. See Figure 2.6.

Last Known Position - Alternate Style

Same as above but displays the last known position in an alternate style.

CONTROL

Send Command

To send a command to a Unit, select the desired Unit in the pull down menu. In the **Inputs** block, the inputs show the alias for each input entered while in **Edit Unit Settings.** To **Enable/Disable** a device, 0 = all inputs or enter the input that corresponds with your particular Unit. **Switch Output On/Off** turns selected output On or Off. Click **Send** to initiate command.

Locate Unit

This is the most common function used. If you have the unit set up to not send location updates automatically, then this is the function you will use to track the vehicle. This is commonly called "pinging" the unit. To locate the unit, select Locate Unit and click the "Locate" text on the unit you want to track. A message box will come up to confirm your request. IMPORTANT: After the command is sent, you will need to go to **Last Known Position** and wait for the unit to report its location. You may have to click the Update button a few times until you see the updated position.

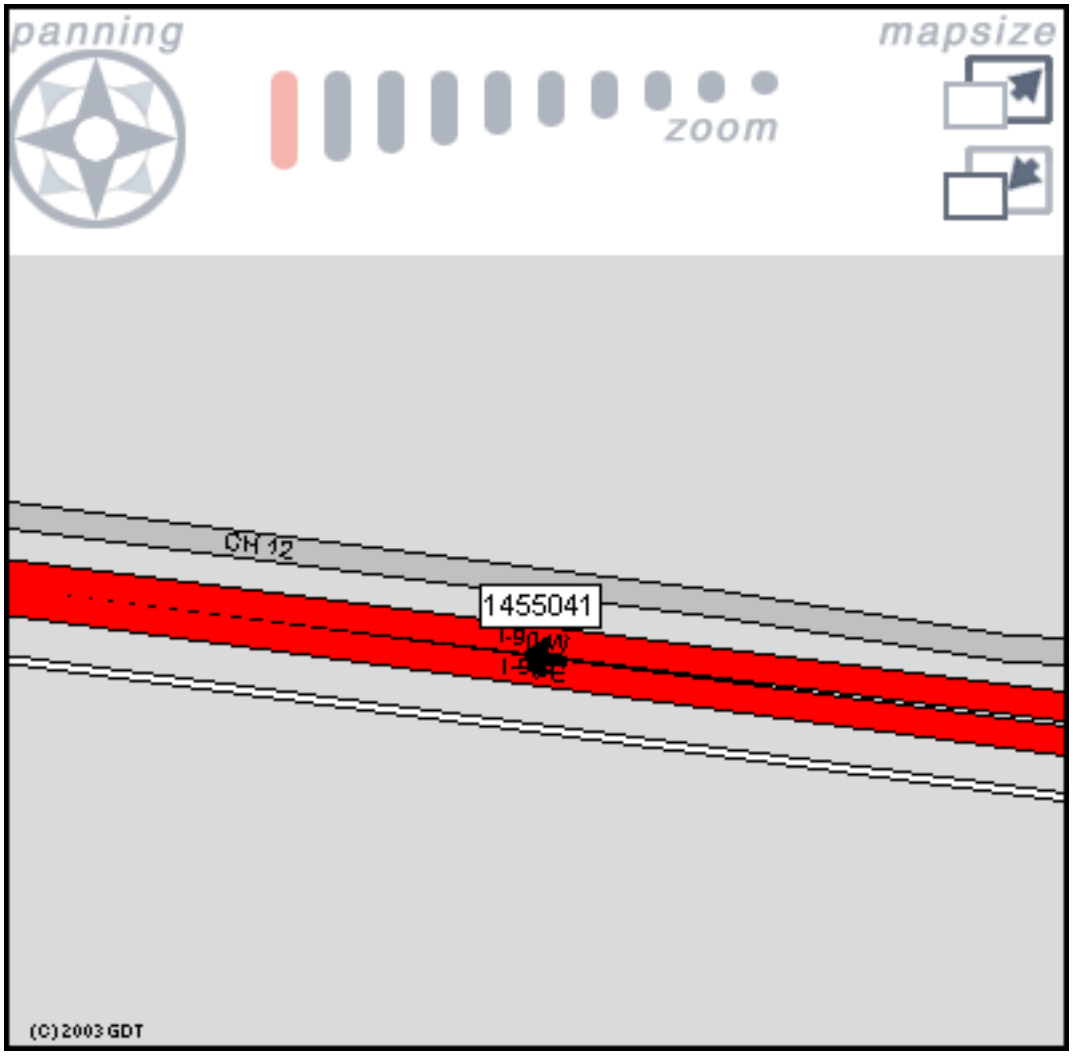


Figure 2.6 Alternate Style

View in Progress
This function will list the commands that you have sent to the unit that have not yet been processed.

View Commands Sent
This function will list the commands that you have already sent.

DOCUMENTATION

The items shown under documentation are self explanatory. The documentation may or may not be needed depending on you needs.